

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1           **Claim 1 (currently amended):** A radio communications  
2   apparatus having a transmission power control feature for  
3   controlling the transmission power of a local station by  
4   using a transmission power control bit transmitted from a  
5   distant station to the local station, comprising:  
6           communication state detector which detects a  
7   communication state based on the reception power of a  
8   received signal transmitted from the distant station; and  
9           transmission power control step range changer which  
10 varies the power step amount of ~~changes~~ a transmission  
11 power control step range corresponding to the transmission  
12 power control bit based on the detected communication  
13 state.

1           **Claim 2 (original):** The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a reception power change detector which  
4   detects a change in reception power in a local station.

1           **Claim 3 (original):**       The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a distant station transmission power  
4   change detector which detects a change in transmission  
5   power in a distant station.

1           **Claim 4 (original):**       The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a control state detector which detects  
4   the control state of the local station.

1           **Claim 5 (original):**       The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a local station transmission power  
4   change detector which detects a change in transmission  
5   power in the local station.

1           **Claim 6 (original):**       The radio communications  
2   apparatus according to claim 1, wherein said communication  
3   state detector has a transmission power control bit change  
4   detector which detects a change in said transmission power  
5   control bit.

1           **Claim 7 (original):**       The radio communications  
2   apparatus according to claim 2, wherein said reception  
3   power change detector has a reception power comparator  
4   which compares a previous reception power with a current  
5   reception power.

1           **Claim 8 (original):**       The radio communications  
2   apparatus according to claim 2, wherein said reception  
3   power change detector has a fading pitch detector which  
4   detects the fading pitch of reception power.

1           **Claim 9 (original):**       The radio communications  
2   apparatus according to claim 2, wherein said reception  
3   power change detector has a reception power threshold  
4   comparator which compares the reception power with a  
5   predetermined threshold.

1           **Claim 10 (currently amended):**   A transmission power  
2   control method for a radio communications apparatus for  
3   controlling transmission power of a local station by using  
4   a transmission power control bit transmitted from a distant  
5   station to the local station, comprising:

6           a communication state detecting step which detects a  
7   communication state based on the reception power of a  
8   received signal transmitted from the distant station; and

9           a transmission power control step range changing step  
10   which varies the power step amount of changes a  
11   transmission power control step range corresponding to the  
12   transmission power control bit based on the detected  
13   communication state.

1           **Claim 11 (original):** The transmission power control  
2   method for radio communications apparatus according to  
3   claim 10, wherein said communication state detecting step  
4   has a reception power change detecting step which detects  
5   a change in reception power in a local station, wherein  
6   said transmission power control range changing step changes  
7   the transmission power control range depending on the  
8   detected change in reception power.

1           **Claim 12 (currently amended):** The transmission power  
2   control method for radio communications apparatus according  
3   to claim 10, wherein  
4           said communication state detecting step has a distant  
5   station transmission power change detecting step which  
6   detects a change in transmission power in a distant station  
7   and a reception power change detecting step which detects  
8   a change in reception power in a local station, wherein  
9           said transmission power control step range changing  
10   step varies the power step amount of changes the  
11   transmission power control step range depending on the

12 detected change in transmission power in the distant  
13 station and the detected change in reception power in the  
14 local station.

1           **Claim 13 (currently amended):** The transmission power  
2 control method for radio communications apparatus according  
3 to claim 10, wherein

4           said communication state detecting step has a control  
5 state detecting step which detects the control state of a  
6 local station, wherein

7           said transmission power control step range changing  
8 step varies the power step amount of ~~changes~~ the  
9 transmission power control step range depending on the  
10 detected control state.

1           **Claim 14 (currently amended):** A transmission power  
2 control method for radio communications apparatus according  
3 to claim 10, wherein

4           said communication state detecting step has a local  
5 station transmission power change detecting step which  
6 detects a change in transmission power in a local station  
7 and a transmission power control bit change detecting step  
8 which detects a change in the transmission power control  
9 bit, wherein

10           said transmission power control step range changing  
11 step varies the power step amount of ~~changes~~ the

12 transmission power control step range depending on the  
13 detected change in transmission power in the local station  
14 and the detected change in the transmission power control  
15 bit.

1           **Claim 15 (original):** The transmission power control  
2 method for radio communications apparatus according to  
3 claim 11 or 12, wherein

4           said reception power change detecting step has a  
5 reception power comparing step which compares a previous  
6 reception power with a current reception power, wherein

7           a change in reception power is detected based on the  
8 comparison results of the reception power comparing step.

1           **Claim 16 (original):** The transmission power control  
2 method for radio communications apparatus according to  
3 claim 11 or 12, wherein

4           said reception power change detecting step has a  
5 fading pitch detecting step which detects the fading pitch  
6 of reception power, wherein

7           a change in reception power is detected based on the  
8 detected fading pitch.

1           **Claim 17 (original):** The transmission power control  
2 method for radio communications apparatus according to  
3 claim 11 or 12, wherein

4           said reception power change detecting step has a  
5   reception power comparing step which compares a previous  
6   reception power with a current reception power and a fading  
7   pitch detecting step for detecting the fading pitch of  
8   reception power, wherein

9           a change in reception power is detected based on the  
10   comparison results of the reception power comparing step  
11   and the detected fading pitch.

1           **Claim 18 (original):** A transmission power control  
2   method for radio communications apparatus according to  
3   claim 11 or 12, wherein

4           said reception power change detecting step has a  
5   reception power threshold comparing step for compares the  
6   reception power with a predetermined threshold, wherein

7           a change in reception power is detected based on the  
8   comparison results of the reception power threshold  
9   comparing step.

1           **Claim 19 (previously presented):** A computer-readable  
2   recording medium for storing a program for use by a  
3   computer for executing the transmission power control  
4   method for the radio communications apparatus according to  
5   any one of claims 10 through 18.